ABSTRACT

The novel use of a one-way valve (13) to prevent drips of fluid such as fuel from a fluid delivery conduit after an intended flow shut-off is disclosed. At least one embodiment involves the use of a biased, one way valve that is reconfigurably responsive to a fluid flow shut-off pressure to prevent flow (e.g., drips, drops and/or a fluid stream) after an intended shut-off of fluid flow via closing of a main valve element (5). The biased, one-way valve (13) may itself comprise at least one fluid obstruction element that is rotatable about and attached at a chord of a simple closed curve (a circle or oval, as but two examples) defined by the inner surface of the conduit through which fluid in the vicinity of the valve flows. Nozzles of existing fuel conduits may be retrofitted to include the valve, or initial manufacturing may incorporate the valve within the conduit.